



Sigma: C1128

>> **Derivative:** *N*-Benzoyl

CAS Registry Number: 1466-83-7

Molecular Formula: C₁₃H₁₇NO₃

Molecular Weight: 235.282

Accurate Mass: 235.120844

Percentage Composition: C 66.36%; H 7.28%; N 5.95%; O 20.40%

Melting Point: Mp 60° (hydrated). Mp 105-107° (anhyd.)

>> **Derivative:** *N*-(3,5-Dinitrobenzoyl)

CAS Registry Number: 7495-01-4

Molecular Formula: C₁₃H₁₅N₃O₇

Molecular Weight: 325.277

Accurate Mass: 325.091002

Percentage Composition: C 48.00%; H 4.65%; N 12.92%; O 34.43%

Use/Importance: Used in chromatographic resoln. of enantiomers

Melting Point: Mp 186-188°

Optical Rotation: [α]_D²⁰ -14.3 (c, 3 in EtOH)

Aldrich: 25153-4

Sigma: D9770

>> **Derivative:** *N*-*tert*-Butyloxycarbonyl

>> **Derivative:** *N*-Benzyloxycarbonyl

>> **Derivative:** *N*-Me

Synonym(s): *N*-Methyllucine, 9Cl. 4-Methyl-2-(methylamino)pentanoic acid. 2-Methylaminoisocaproic acid

CAS Registry Number: 3060-46-6

Molecular Formula: C₇H₁₅NO₂

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Biological Source: Residue present in antibiotics, e.g. Ilamycins, Sporidesmolides

Physical Description: Cryst. (Me₂CO aq.)

Melting Point: Mp 200 subl.°

Optical Rotation: [α]_D +21.4 (H₂O). [α]_D +31.3 (5*M* HCl)

Sigma: M2382

>> **Derivative:** *N*-Me, Me ester

CAS Registry Number: 35026-08-5

Molecular Formula: C₈H₁₇NO₂

Molecular Weight: 159.228

Accurate Mass: 159.125929

Percentage Composition: C 60.35%; H 10.76%; N 8.80%; O 20.10%

Melting Point: Mp 126.5-127° (as hydrochloride)

Optical Rotation: [α]_D²⁵ +31.4 (c, 1 in EtOH)

>> **Derivative:** *N*-Me, *N*-*tert*-butyloxycarbonyl

CAS Registry Number: 53363-89-6

Molecular Formula: C₁₂H₂₃NO₄

Molecular Weight: 245.318

Accurate Mass: 245.162709

Percentage Composition: C 58.75%; H 9.45%; N 5.71%; O 26.09%

Melting Point: Mp 56-57°

Optical Rotation: [α]_D²⁶ -24.6 (c, 0.5 in EtOH)

>> **Derivative:** *N*-Me, *N*-benzyloxycarbonyl